

136575

Page 1

N900040100

Setup Start *NS1*

Stop ***NS2***

20.9 A

Start Qty: ~~10.00~~

10

Cust Item ID:

Req'd Qty: 10.00

10

Customer:

Run Start *NR1*

Process Plan: MLS

Date: SEP 04 2015

Tooling:

Date: _____

QC:

Date:

SPC (Y/N):

Date: _____

Stop *NR2*

[illegible]

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																																									
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Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐																																																																								
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Misidentified ☐	Past Due ☐																																																																												

Work Order ID 136575

Thursday, September 03, 2015 8:04:20 AM

136575

Page 2

Item ID: DSK078 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: D2893-1 Turning Detail
 Start Date: 9/1/2015 Start Qty: 10.00 ***10*** Cust Item ID:
 Required Date: 9/1/2015 Req'd Qty: 10.00 ***10*** Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130		0.00							
130									
Packaging	Memo	0.00				20	0		DAS 44 9-89 15/10/13
Packaging	LOCATION: MAT060								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

15/10/13 *[Signature]*
 MS OCT 13 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabelled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : _____					

Picklist Print

Thursday, September 03, 2015 8:04:24 AM

Page 1

Work Order ID: 136575

136575

Parent Item: DSK078

DSK078

Parent Item Name: D2893-1 Turning Detail

Start Date: 9/1/2015

Required Date: 9/1/2015

Start Qty: 10.00

Required Qty: 10.00

Comments: IPP rev A. 08.03.13 new issue EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6104-005		Manufactured	No				Each	18.0000		10			DAS
D6104-005									**			15/10/06	40
Round Billet, 17-4													9-89

Location

Loc Qty

Loc Code

MAT043

18

→ 130690

18

→ 136675

17

3

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

DART AEROSPACE LTD		Work Order: 136575
Description: Turning Detail for D2893-1		Part Number: DSK078
Inspection Dwg: DSK078	Rev: A	Page 1 of 1

FIRST ARTICLE INSPECTION DIMENSION SHEET

☒ First Article ☐ Prototype

				Record Actual Dimensions				
Dim	Min	Max	Go/No Go Gauge	1	2	3	4	5
Lathe Section								
A	2.707	2.712		2.709	2.709	2.709	2.710	2.709
B	4.946	4.966		4.954	4.954	4.954	4.954	4.953
C	3.064	3.084		3.075	3.075	3.075	3.075	3.075
D	0.718	0.738		.728	.728	.728	.728	.728
E	0.090	0.110		.100	.100	.100	.100	.100
F	2.934	2.954		2.944	2.944	2.944	2.944	2.944
G	2.166	2.186		2.177	2.177	2.177	2.177	2.177
H	3.890	3.910		3.900	3.900	3.900	3.900	3.900
I	0.914	0.934		.924	.924	.924	.924	.924
J	0.022	0.042		.032	.032	.032	.032	.032
K	0.109	0.129		.118	.118	.118	.118	.118
L								
M								
N								
O								
P								

Measured by: DAS 40	Date: 15/10/06
Audited by: DAS 44	Date: 15/10/13
Prototype Approval:	Date:

Rev	Date	Change	Revised by	Approved
A	08.04.22	New Issue	KJ/JLM	

DART AEROSPACE LTD		Work Order:	136578
Description: Turning Detail for D2893-1		Part Number:	DSK078
Inspection Dwg: DSK078		Rev: A	Page 1 of 1

FIRST ARTICLE INSPECTION DIMENSION SHEET

☒ First Article ☐ Prototype

				Record Actual Dimensions				
Dim	Min	Max	Go/No Go Gauge	#6	#7	#8	#9	#10
Lathe Section								
A	2.707	2.712		2.709	2.709	2.709	2.709	2.709
B	4.946	4.966		4.954	4.952	4.953	4.953	4.954
C	3.064	3.084		3.075	3.075	3.075	3.075	3.075
D	0.718	0.738		.728	.728	.728	.728	.728
E	0.090	0.110		.100	.100	.100	.100	.100
F	2.934	2.954		2.945	2.945	2.945	2.945	2.945
G	2.166	2.186		2.175	2.175	2.175	2.175	2.175
H	3.890	3.910		3.900	3.900	3.900	3.900	3.900
I	0.914	0.934		.924	.924	.924	.924	.924
J	0.022	0.042		.032	.032	.032	.032	.032
K	0.109	0.129		.118	.118	.118	.118	.118
L								
M								
N								
O								
P								

Measured by:		DAS 40	Date:	15/10/07
Audited by:		DAS 44 9-89	Date:	15/10/13
Prototype Approval:			Date:	

Rev	Date	Change	Revised by	Approved
A	08.04.22	New Issue	KJ/JLM	<i>[Signature]</i>

DART AEROSPACE LTD		Work Order: 136575
Description: Turning Detail for D2893-1		Part Number: DSK078
Inspection Dwg: DSK078	Rev: A	Page 1 of 1

FIRST ARTICLE INSPECTION DIMENSION SHEET

☒ First Article
 ☐ Prototype

				Record Actual Dimensions				
Dim	Min	Max	Go/No Go Gauge	1	2	3	4	5
Lathe Section								
A	2.707	2.712		2.709	2.709	2.709	2.709	2.709
B	4.946	4.966		4.954	4.953	4.955	4.954	4.954
C	3.064	3.084		3.075	3.075	3.075	3.075	3.075
D	0.718	0.738		.728	.728	.728	.728	.728
E	0.090	0.110		.100	.100	.100	.100	.100
F	2.934	2.954		2.944	2.944	2.944	2.944	2.944
G	2.166	2.186		2.177	2.177	2.177	2.177	2.177
H	3.890	3.910		3.900	3.900	3.900	3.900	3.900
I	0.914	0.934		.924	.924	.924	.924	.924
J	0.022	0.042		.032	.032	.032	.032	.032
K	0.109	0.129		.118	.118	.118	.118	.118
L								
M								
N								
O								
P								

Measured by: DAS 40	Date: 15/10/07
Audited by: 9-89 DAS 44	Date: 15/10/13
Prototype Approval:	Date:

Rev	Date	Change	Revised by	Approved
A	08.04.22	New Issue	KJ/JLM	

DART AEROSPACE LTD		Work Order: 136575
Description: Turning Detail for D2893-1		Part Number: DSK078
Inspection Dwg: DSK078	Rev: A	Page 1 of 1

FIRST ARTICLE INSPECTION DIMENSION SHEET

☒ First Article ☐ Prototype

				Record Actual Dimensions				
Dim	Min	Max	Go/No Go Gauge	16	17	18	19	20
Lathe Section								
A	2.707	2.712	2.7	2.709	2.709	2.709	2.709	2.709
B	4.946	4.966		4.954	4.954	4.954	4.954	4.953
C	3.064	3.084		3.075	3.075	3.075	3.075	3.075
D	0.718	0.738		.728	.728	.728	.728	.728
E	0.090	0.110		.100	.100	.100	.100	.100
F	2.934	2.954		2.944	2.944	2.944	2.944	2.944
G	2.166	2.186		2.177	2.177	2.177	2.177	2.177
H	3.890	3.910		3.900	3.900	3.900	3.900	3.900
I	0.914	0.934		.924	.924	.924	.924	.924
J	0.022	0.042		.032	.032	.032	.032	.032
K	0.109	0.129		.118	.118	.118	.118	.118
L								
M								
N								
O								
P								

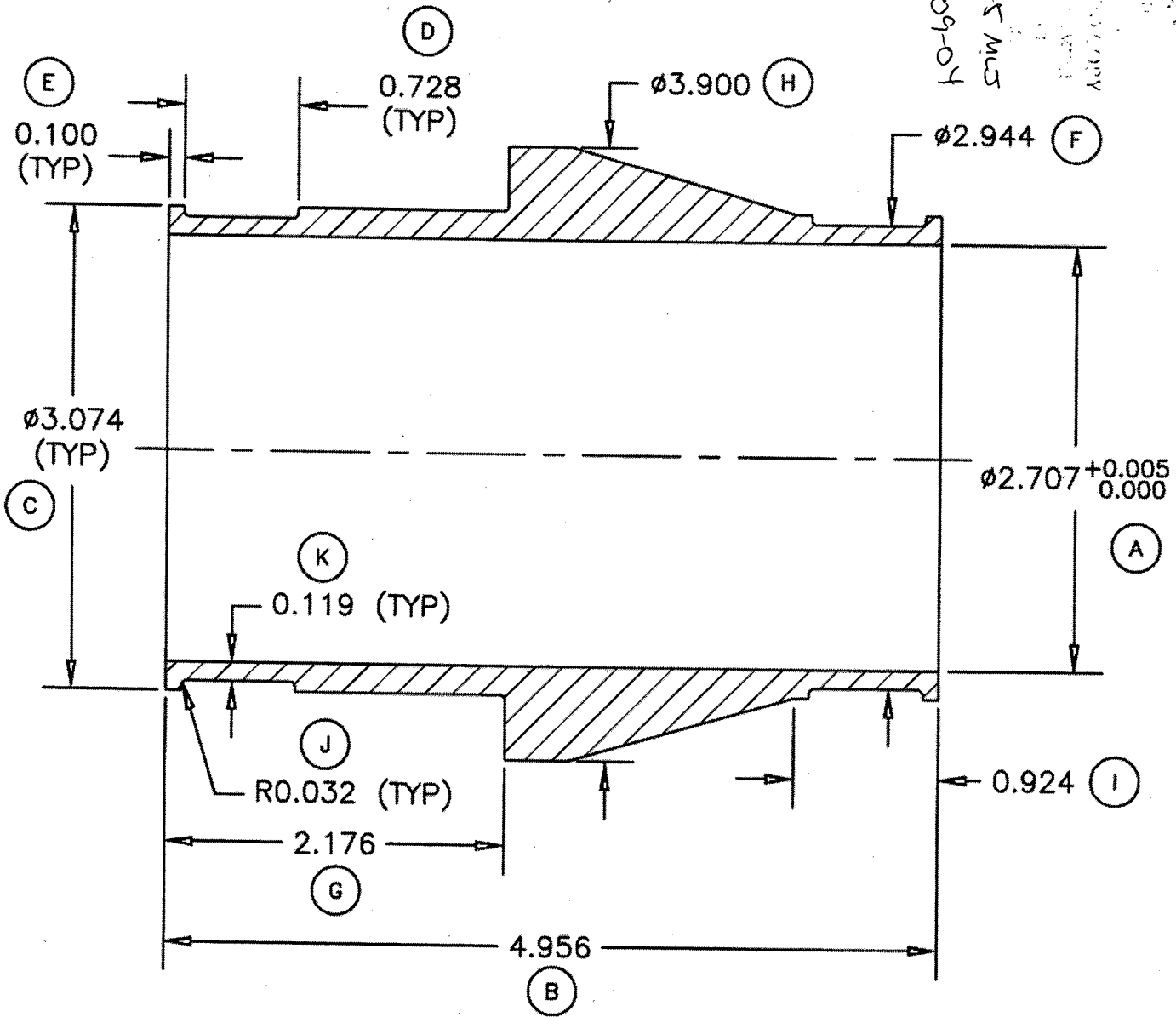
Measured by: DAS 40		Date: 15/10/07
Audited by: 9-89 DAS 44		Date: 15/10/13
Prototype Approval: 9-89		Date:

Rev	Date	Change	Revised by	Approved
A	08.04.22	New Issue	KJ/JLM	



DESIGN RT	DRAWN BY RT	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED H	APPROVED H	DRAWING NO. DSK 078	REV. A SHEET 1 OF 1
DATE 03.05.20		TITLE TURNING DETAIL FOR D2893-1	SCALE 1:1
A	03.05.20	NEW ISSUE	

RELEASED
03.07.01



D2893-1 TURNING DETAIL

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